AMENDMENTS TO THE CLAIMS

 (Currently Amended) A method for transmitting DSI and NDSI over a communication link of a communication network, the method comprising the steps of:

transmitting an initial DSI after applying a delay to the initial DSI where such delay is based on a <u>determined periodicity parameters</u> of received DSI.

- 2. (Canceled)
- 3. (Currently Amended) The method of claim 1 [[2]] comprising transmitting NDSI over the link of the communication network, wherein the delay is further based on a defined length NDSI being transmitted.
- 4. (Original) The method of claim it 1 where the step of transmitting DSI comprises: transmitting and DSI in a non-fragmented manner when there are no DSI to be transmitted:

monitoring for any received DSI;

determining whether a received DSI is an initial DSI;

transmitting the received DSI as per its periodicity when such received DSI is not an initial DSI; and

performing a fragmentation operation for NDSI to be transmitted or for NDSI being transmitted.

- (Original) The method of claim 4 wherein the fragmentation operation performed is a dynamic fragmentation operation.
- (Original) The method of claim 4 where the step of determining whether a received DSI
 is an initial DSI is based on information received from communication equipment.
- (Original) The method of claim 4 where the step of transmitting the DSI as per its periodicity is based on information received from communication equipment.
- (Original) The method of claim 6 where the communication equipment is an IAD.
- (Original) The method of claim 6 where the communication equipment is subscriber equipment.
- (Original) The method of claim 7 wherein the communication equipment is an IAD.
- (Original) The method of claim 7 where the communication equipment is subscriber equipment.
- 12. (Original) The method of claim 1 further comprising the steps of: maintaining a list of transmission times for received initial DSI; establishing a transmission time for each received initial DSI; and updating the list when an initial DSI is received or when a DSI flow is terminated.

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13. (Original) An apparatus for transmitting DSI and NDSI over a communication link of a communication network where the apparatus applies a delay to received initial DSI based on a determined periodicity of the received DSI and a defined length of NDSI being transmitted.

- 14. (Original) The apparatus of claim 13 configured as an IAD coupled to subscriber equipment and to an access network.
- 15. (Original) The apparatus of claim 13 configured as part of host equipment where such host equipment is coupled to an access network and to a packet based communication network.